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L3: Entry 11 of 11

File: USPT

Jun 10, 2003

US-PAT-NO: 6578003

DOCUMENT-IDENTIFIER: US 6578003 B1

TITLE: Method and apparatus for improving patient compliance with prescriptions

DATE-ISSUED: June 10, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|------------|-------|----------|---------|
| Camarda; Leonard T. | Bedminster | NJ | | |
| Wilbur; Curtis S. | Hopewell | NJ | | |
| Schectman; Stephen B. | Summit | NJ | | |
| Hanson; Gregory K. | Edina | MN | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|----------------------|------------|-------|----------|---------|-----------|
| Schering Corporation | Kenilworth | NJ | | | 02 |

APPL-NO: 09/ 562408 [\[PALM\]](#)

DATE FILED: May 1, 2000

PARENT-CASE:

This application is a continuation of U.S. Ser. No. 09/126,369 filed Jul. 30, 1998, which claims the benefit of U.S. provisional application No. 60/054,384 filed Jul. 31, 1997 and No. 60/082,172 filed Apr. 16, 1998.

INT-CL: [07] [G06](#) [F](#) [17/60](#)

US-CL-ISSUED: 705/3; 705/2

US-CL-CURRENT: [705/3](#); [705/2](#)

FIELD-OF-SEARCH: 705/3, 705/2

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| <input type="checkbox"/> | 5547878 | August 1996 | Kell | 436/111 |
| <input type="checkbox"/> | 5594637 | January 1997 | Eisenberg et al. | 705/2 |

| | | | | |
|--------------------------|----------------|----------------|-----------------|---------|
| <input type="checkbox"/> | <u>5612869</u> | March 1997 | Letzt et al. | 705/3 |
| <input type="checkbox"/> | <u>5623242</u> | April 1997 | Dawson et al. | 340/7.3 |
| <input type="checkbox"/> | <u>5664109</u> | September 1997 | Johnson et al. | 705/3 |
| <input type="checkbox"/> | <u>5666492</u> | September 1997 | Rhodes et al. | 705/3 |
| <input type="checkbox"/> | <u>5722418</u> | March 1998 | Bro | 128/905 |
| <input type="checkbox"/> | <u>5748907</u> | May 1998 | Crane | 705/2 |
| <input type="checkbox"/> | <u>5772585</u> | June 1998 | Lavin et al. | 705/3 X |
| <input type="checkbox"/> | <u>5832488</u> | November 1998 | Eberhardt | 707/10 |
| <input type="checkbox"/> | <u>5908788</u> | June 1999 | Kell | 436/111 |
| <input type="checkbox"/> | <u>5933136</u> | August 1999 | Brown | 705/3 |
| <input type="checkbox"/> | <u>5974396</u> | October 1999 | Anderson et al. | 705/10 |
| <input type="checkbox"/> | <u>5976082</u> | November 1999 | Wong et al. | 600/300 |

FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | US-CL |
|----------------|----------------|---------|-------|
| 0 301 672 | September 1989 | EP | |
| 0 403 294 | December 1990 | EP | |
| 0 526 166 | February 1993 | EP | |
| 0 592 851 | April 1994 | EP | |
| 0 789 307 | August 1997 | EP | |

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"Recipe for Research and Development success--`Get Lucky`;" Scrip 2117; p. 8; Apr. 5, 1996.*

Burns, Lawton R.; Chillingierian, Jon A.; "The effects of physician practice organization on efficient utilization of hospital resources;" Health Services Research; v29n5, p. 583-603; Dec. 1994.*

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Bean, Andrew G. ; Talaga, James, "Appointment Breaking: Causes and solutions" J. Health Care Marketing 12:14 (Dec. 1992).

McElnay, JC et al "Self-reported medication non-compliance in the ederly," Eur. J. Clinical Pharmacology 53:171 (1997).

ART-UNIT: 3625

PRIMARY-EXAMINER: Smith; Jeffrey A.

ASSISTANT-EXAMINER: Thompson, Jr.; Forest

ATTY-AGENT-FIRM: Darby & Darby Thampoe; Immac J.

ABSTRACT:

A method and apparatus for improving patient compliance with prescriptions utilizes computer terminals to convert prescription information into electronic form as records for each patient. Each such patient record includes information about the

patient from the prescription and the prescription itself. In addition, demographic information about the patient is obtained from other commercial databases and added to the patient record. Then a regression analysis is run on the patient records using the various data elements versus the compliance of the patient with the prescription to determine the relative importance of each variable in the prediction. The analysis is used to segregate the patients into demographic clusters and to associate champion intervention messages with each cluster. When a patient's prescription is entered in the system thereafter, the model is used to associate the patient with a cluster and to direct the champion message to that patient. Further, a regression analysis may be run on the patient data to create a model of likelihood of prescription compliance in general by the patient. The result is a probability equation that allows a score to be assigned to each record. Based on this score, the patients most likely to fail to comply with their prescription are sent the champion interventions. As new challenge interventions messages are created additional information is gathered and the regression analysis is re-run. If the challenge message is more successful, it is substituted as the new. champion message. The results of these interventions are recorded and appended to the related patient record.

9 Claims, 8 Drawing figures

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